

Sub D1
C2
(a) nucleic acid molecules which hybridize under stringent conditions to a nucleic acid molecule having a nucleotide sequence selected from the group consisting of SEQ ID NO:38 and SEQ ID NO:43, and which code for a sarcoma associated gene product,

[(b) deletions, additions and substitutions of the nucleic acid molecules of (a), which code for a sarcoma associated gene product,]

[(c)] (b) nucleic acid molecules that differ from the nucleic acid molecules of (a) [or (b)] in codon sequence due to the degeneracy of the genetic code, and

[(d)] (c) complements of (a)[,] and (b) [and (c)].

9. (amended) An isolated nucleic acid molecule selected from the group consisting of:

Sub F2
C3
(a) a unique fragment of the nucleotide sequence set forth as nucleotides 1-1997 of SEQ ID NO:38 between 12 and 1996 nucleotides in length, which encodes a portion of SEQ ID NO:39,

(b) a unique fragment of the nucleotide sequence set forth as nucleotides 1-2442 of SEQ ID NO:43 between 12 and 2441 nucleotides in length, which encodes a portion of SEQ ID NO:44, and

(c) complements of (a) and (b), wherein the unique fragment excludes nucleic acid molecules completely composed of the nucleotide sequences of GenBank accession numbers U89672 or AA213817.

C4
Sub D4
43. A kit for detecting the presence of the expression of a tumor associated polypeptide precursor encoded by SEQ ID NO:43, comprising a first isolated nucleic acid molecule consisting of a 12-32 nucleotide contiguous segment of SEQ ID NO:43, and a second isolated nucleic acid molecule consisting of a 12-32 nucleotide contiguous segment of the complement of SEQ ID NO:43, wherein the contiguous segments are nonoverlapping.

{ Please add the following new claim: }

C5
Sub D5
60. (new) An isolated nucleic acid molecule selected from the group consisting of

(a) nucleic acid molecules which hybridize under stringent conditions to a nucleic acid molecule having a nucleotide sequence set forth as SEQ ID NO:1, and which code for a sarcoma associated gene product,